

USSN: 10/748,524

Attorney Docket: I-1995.184 US D1

Response to Office Action of May 1, 2006

Amendments to the Claims:

1. (Currently amended): A multicomponent vaccine for cattle comprising an immunogenically effective combination of a protective antigen component from ~~at least~~ six clostridial organisms, a protective antigen component from at least one non-clostridial organism, which is Moraxella Bovis (M.Bovis), and ~~at least one~~ a polymer ~~selected from the group consisting of oil in water, water in oil, Al (OH)₃, Al₂ (SO₄)₃, Al PO₄, bacterial extracts, a plant extract, a polymer and a liposome, whereby the polymer adjuvant functions by releasing antigen slowly, and~~ wherein the vaccine is in a low dose volume of about ~~[[2]]~~ 3 ml or less.
2. (Currently amended): A multicomponent vaccine for cattle, comprising an immunogenically effective combination of protective antigen components from ~~at least~~ seven clostridial organisms, a protective antigen component from at least one non-clostridial organism, which is M. Bovis, and ~~at least one~~ a polymer ~~selected from the group consisting of oil in water, water in oil, Al (OH)₃, Al₂ (SO₄)₃, Al PO₄, bacterial extracts, a plant extract, a polymer and a liposome, whereby the polymer adjuvant functions by releasing antigen slowly, and~~ wherein the vaccine is in a low dose volume of about ~~[[2]]~~ 3 ml or less.

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3. (Currently amended): The vaccine according to Claim 1, wherein the clostridial ~~organism~~ is organisms are selected from the group consisting of ~~Clostridium chauvoei, Clostridium septicum, Clostridium~~ Clostridium chauvoei, Clostridium septicum, Clostridium novyi , *Clostridium perfringens* type C, *Clostridium perfringens* type D, *Clostridium sordellii*, *Clostridium haemolyticum* and *Clostridium tetani*.

Claims 4-14 (Canceled)

15. (Previously presented): The vaccine according to Claim 3, wherein the 6 clostridial organisms are selected from the group consisting of *Cl. chauvoei*, *Cl. septicum*, *Cl. novyi*, *Cl. perfringens* type C, *Cl. perfringens* type D, *Cl. haemolyticum* and *Cl. sordellii*.

Claim 16 (Canceled)

17. (Currently amended): The vaccine according to Claim 2, wherein the 7 clostridial organisms are selected from the group consisting of ~~Cl. chauvoei, Cl. septicum, Cl. novyi, Cl. perfringens type C, Cl. perfringens type D, Cl. sordellii, Cl. haemolyticum, and Cl. tetani~~ *Cl. chauvoei, Cl. septicum, Cl. novyi, Cl. perfringens* type C, *Cl. perfringens* type D, *Cl. sordellii, Cl. haemolyticum, and Cl. tetani*.

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18. (Previously presented): The vaccine according to Claim 1, wherein the protective antigen component from 6 clostridial organisms is from *Cl. chauvoei*, *Cl. septicum*, *Cl. novyi*, *Cl. perfringens* type C, *Cl. perfringens*, type D, and *Cl. sordellii*.

19. (Currently amended): The vaccine according to claim 2, wherein the protective antigen component from 7 clostridial organisms is from *Cl. chauvoei*, *Cl. septicum*, *Cl. novyi*, *Cl. perfringens* type C, *Cl. perfringens*[[,]] type D, *Cl. haemolyticum* and *Cl. sordellii*.

Claims 20-39 (Canceled)

40. (Currently amended): ~~[[The]]~~ A multicomponent vaccine according to claim 2, wherein the 7 clostridial organisms are for cattle comprising an immunogenically effective combination of the protective antigen components *Cl. chauvoei*, *Cl. septicum*, *Cl. novyi*, *Cl. perfringens* type C, *Cl. perfringens* type D, *Cl. sordellii*, *Cl. chauvoei*, *Cl. septicum*, *Cl. novyi*, *Cl. perfringens* type C, *Cl. perfringens* type D, *Cl. sordellii*, *Cl. tetani* and *Cl. haemolyticum*, and the protective antigen component from at least one non-clostridial organism comprises *Haemophilus somnus* and, which is *M. bovis*[[,]] and a polymer adjuvant, whereby the polymer adjuvant functions by releasing antigen slowly, and wherein the vaccine is in a low dose volume of about 3 ml. or less.

Claims 41-45 (Canceled)

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46. (Currently amended): A method of immunizing ~~[[an]]~~ a bovine animal comprising administering an effective amount of the vaccine of Claim 1.

47. (Currently amended): A method of immunizing ~~[[an]]~~ a bovine animal comprising administering an effective amount of the vaccine of Claim 2.

48. (New): A method of immunizing a bovine animal comprising administering an effective amount of the vaccine of claim 40.